DOMiNO
by SIM2

Installation manual

SIM2 Multimedia

cod.46.0576.000

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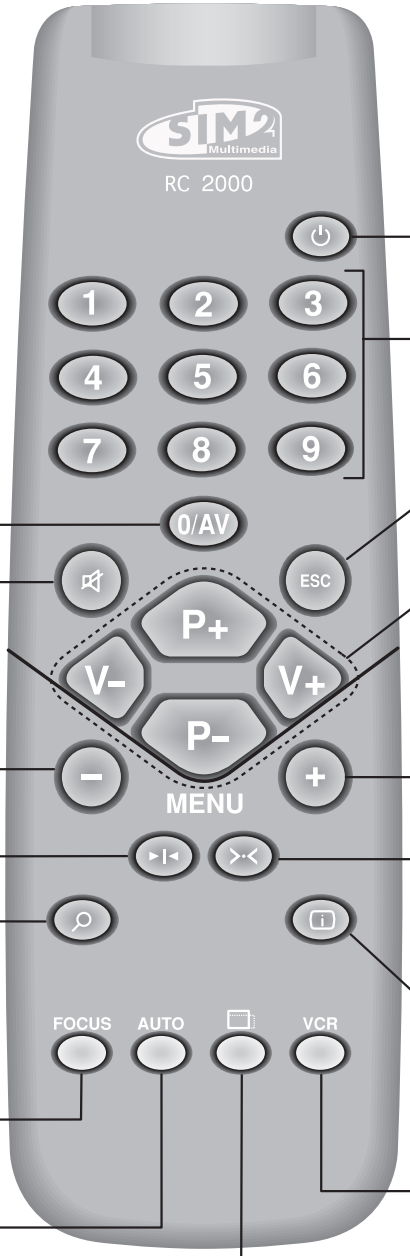

STAND-BY
Switches off to stand-by.

0-9 Keys
Switch on from stand-by and allow direct source selection.

ESCAPE
Deactivates the On Screen Display.

Up/Down/Left/Right Arrow keys
Navigate through and make adjustments to the On Screen menus.
Arrow Up/Down
menus.

MENU +
Activates the On Screen Display menus.
Navigates menu pages.

Not active in this model.

INFO
Displays the selected source information and the projector status.

VCR
Improves the video recorder signals quality.

ASPECT
Selects image Aspect ratio.

SOURCE
Displays the Source Selection menu.

Not active in this model.

MENU -
Activates the On Screen Display menus.
Navigates menu pages.

FREEZE
Freezes a moving picture.

ZOOM
Selects lens zoom adjustment.

FOCUS
Selects focus lens adjustment.

AUTO
Selects Auto Adjust (automatic optimisation of the displayed image).

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1 INTRODUCTION

Congratulations and thank you for choosing a **D35** projector, a **SIM2 Multimedia SpA** product (Fig. 1).

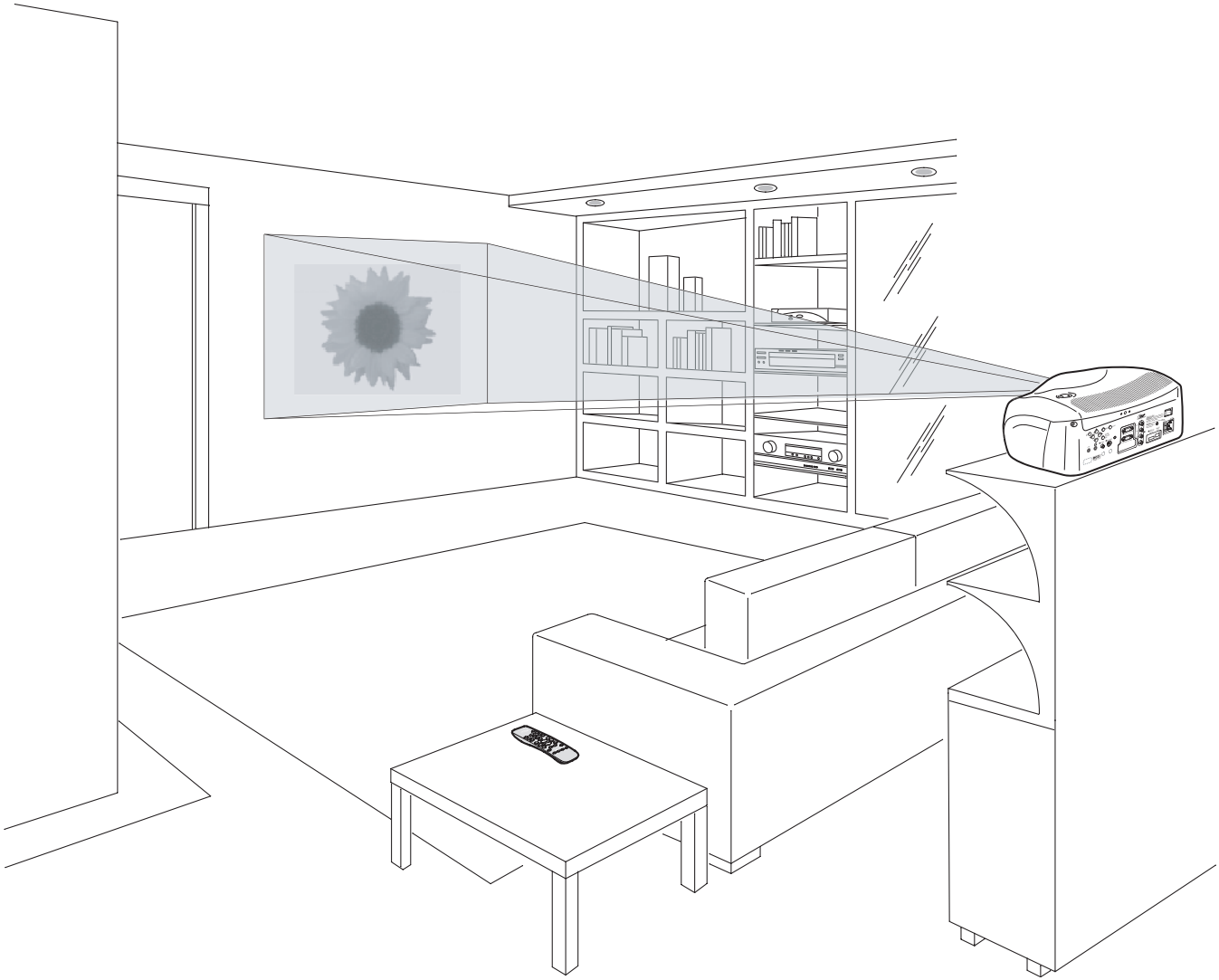

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Fig. 1

Using the very latest in DLP™ technology, this projector has been designed specifically for high quality "Home Cinema" applications.

Sophisticated digital processing and a wide choice of inputs enable the connection of a variety of sources such as DVD players, analogue and digital VCRs, analogue and digital satellite receivers and personal computers etc.

The long throw zoom lens allows the position of the projector to be located behind the viewer, thus reproducing a cinema-like installation (Fig. 2).

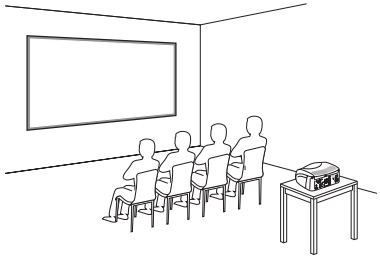

Fig. 2

A sophisticated proprietary optical system, coupled with a hight performance zoom lens ensures hight contrast images, superior uniformity and edge-to-edge definition.

A new 6-segment colour wheel dramatically reduces the so called "rainbow effect" and gives a better contrast, better colorimetry and a lower black level to the image.

The renowned DCDi™ technology is adopted for deinterlacing: conversion from interlaced to progressive produces a smooth and natural image, without flickering, loss of vertical resolution and jaggedness along diagonal lines.

The low-noise ventilation system – with variable speed fans – ensures appropriate cooling and maximizes projector reliability.

To fully appreciate your new projector we recommend the use of a good quality screen and surround-sound system. Contact your nearest authorized **SIM2 Multimedia** dealer for further details.

SIM2 carries out comprehensive functional testing in order to guarantee the maximum product quality.
For this reason, when you start using the product lamp operating hours may already be at between 30 and 60.

In addition to the regular tests, the Quality Control department performs additional statistical tests at the time of shipment.
In this case the packing may show signs of having been opened, and the accumulated lamp operating hours may be slightly higher than the hours associated with the standard tests.

PICTURE BY DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

HDMI™ HIGH DEFINITION MULTIMEDIA INTERFACE

DLP and DMD are registered trademarks of Texas Instruments.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

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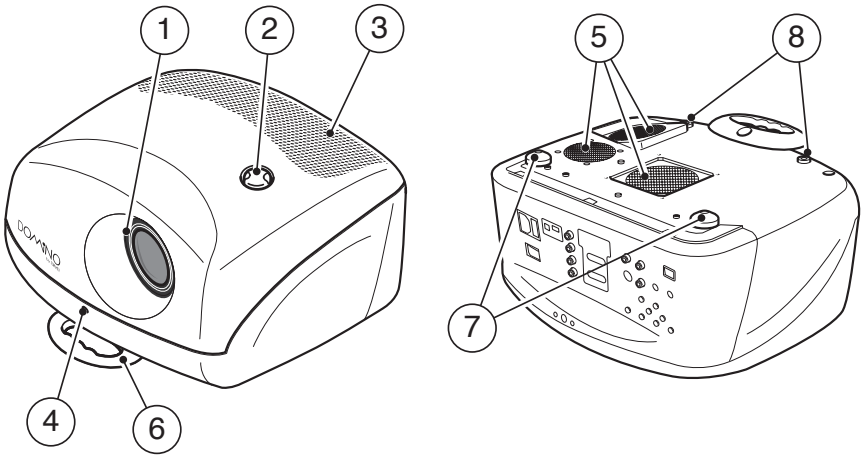
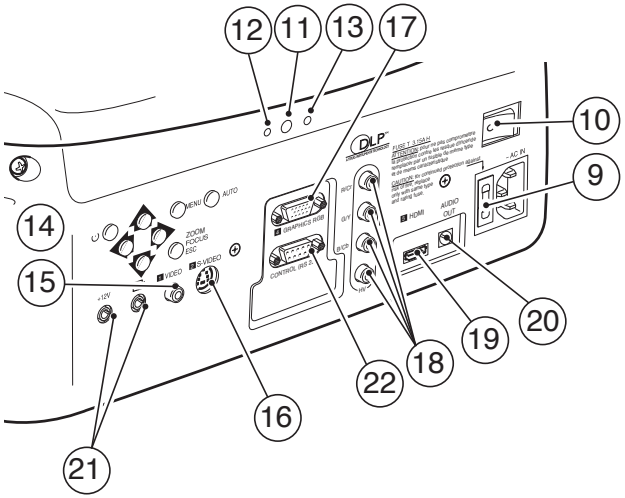


1	Projection lens
2	Lens shift knob
3	Cooling air inlet vents
4	Remote control IR sensor
5	Cooling air outlet vents
6	Adjustable carry-handle
7	Adjustable levelling feet
8	Ceiling/wall bracket fixing holes



9	Fused power socket
10	Main power switch
11	Remote control rear IR sensor
12	Green LED
13	Red LED
14	Rear keyboard pad
15	Composite video input
16	S-Video input
17	VGA input
18	RGB / YCrCb input
19	HDMI™ input
20	Optical Audio Output
21	12Vdc screen output
22	RS232 interface connector

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2 IMPORTANT SAFETY INSTRUCTIONS

This symbol indicates the presence of important instructions regarding use and maintenance of the product.

This symbol indicates the possible electric shock hazard associated with uninsulated live components in the interior of the unit.

ATTENTION:
To reduce the risk of electric shock, disconnect the power supply cable on the rear panel before removing the top cover of the projector. Refer to trained, authorised personnel for technical assistance.

LAMP WARNING:
If the lamp should suddenly break with a loud bang, air the room thoroughly before using it. Do not replace the lamp: seek qualified technical assistance from your nearest Dealer.

ENVIRONMENTAL INFORMATION:
The product you have purchased contains extracted natural resources that have been used in the manufacturing process. This product may contain substances known to be hazardous to the environment or to human health. To prevent releases of harmful substances into the environment and to maximize the use of natural resources, SIM2 Multimedia provides the following information on how you can responsibly recycle or reuse most of the materials in your "end of life" product. Waste Electrical and Electronic Equipment (commonly know as WEE) should never be disposed of in the municipal waste stream (residential garbage collection). The "Crossed-Out-Waste Bin" label affixed to this product is in your reminder to dispose of your "End of Life" product properly. Substances such as glass, plastic, and certain chemical compounds are highly recoverable, recyclable, and reusable. You can do your part for the environment by following these simple steps:

1. When your electrical or electronic equipment is no longer useful to you, "take it back" to your local or regional waste collection administration for recycling.

2. In some cases, your "end of life" product may be "traded in" for credit towards the purchase of new SIM2 Multimedia equipment. Call SIM2 Multimedia to se if this program is available in your area.

3. If you need further assistance in recycling. Reusing, or trading in your "end of life" product, you may contact us at the Customer Care number listed in your products user guide and we will be glad to help you withy our effort.

Finally, we suggest that your practice other environmentally friendly actions by understanding and using the energy-saving features of this products (where applicable), recycling the inner and outer packaging (including shipping containers) this product was delivered in, and by disposing of a or recycling used properly.
With your help, we can reduce the amount of natural resources needed to procedure electrical and electronic equipment, minimize the use of landfills for the disposal of "end of life" products, and generally improve our quality of life by ensuring that potentially hazardous substances are not released into the environment and are disposed of properly.

Prior to switching on the projector please read each chapter of this manual carefully as this manual provides basic instructions for using the projector. The installation of the lamp assembly, preliminary adjustments and procedures that necessitate the removal of the top cover, must be carried out by authorised, trained technicians. There are no user serviceable parts inside. To ensure safe and long term reliability please use power cables supplied with the projector. Observe all warnings and cautions.

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Please follow carefully the warnings listed below, to ensure safe and long term performance of your projector.

- Connect the projector to a power supply with a nominal voltage within the following values: 100-240 Vac, 50/60 Hz, earthed (Fig. 3).

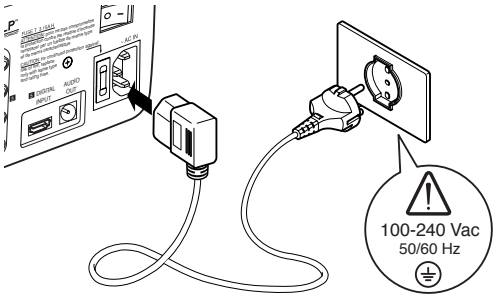

Fig. 3

- The mains plug is the disconnect device. Take care, when installing, that the mains plug and socket outlet are easily accessible. Never pull on the cable to take it out of the socket. If the system is unlikely to be used for a number of days, disconnect the power cable and other apparatus connected to it.

- To save energy, switch off the projector by using the power switch at the rear; when in stand-by (red light on) the projector continues to draw a minimal amount of power.

- Only replace the safety fuse (on the power socket at the rear of projector) with a fuse identical in type and characteristics (T 3.15A H) (Fig. 4).

- Do not switch on your projector when flammable liquids or fumes are present. Do not pour or drop fluids in the vents.

- Do not use the projector when the room temperature is above 35°C (95°F).

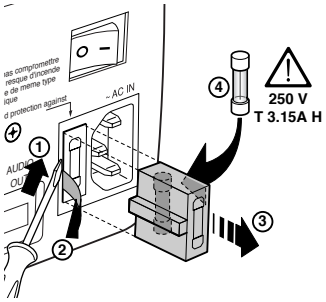

Fig. 4

- Do not obstruct the cooling air inlets on the top cover, or the air outlets underneath the projector.

- Do not switch on the projector if it is standing on soft surfaces such as cushions, pillows, blankets, mattresses and carpets: the air cooling outlets underneath could become obstructed.

- Do not switch-on the projector if it is standing on surfaces sensitive to heat, as this may result in damage caused by the hot air outlets underneath. Should this be unavoidable take extra precaution of protecting the surfaces with a layer of heat resistant material.

- Intense Light Source! Do not stare directly into the projection lens as possible eye damage could result. Be especially careful that children do not stare directly into the beam.

- Do not open the projector's cover; no user serviceable parts are inside. Refer servicing to qualified service personnel. Opening the projector's cover will invalidate warranty.
- Take care not to shake the projector whilst carrying it by the handle.

- Always position the projector away from direct heat sources.

- Do not touch the surface of the projection lens.

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- The projector must be positioned on a stable, suitable platform or be installed using a bracket for fixed ceiling or wall installation. Do not rest the projector on the side panels or on the rear panel when in operation.

- Take care to position cables safely, especially in dark places, in order to avoid a trip hazard.
- For installations using a ceiling or wall-mounted bracket, carefully follow the installation and safety instructions provided with the bracket's literature.

- Please remove batteries from the remote control if not in use for a long period of time.

3 PACKAGING AND CONTENTS

The carton should contain the following:

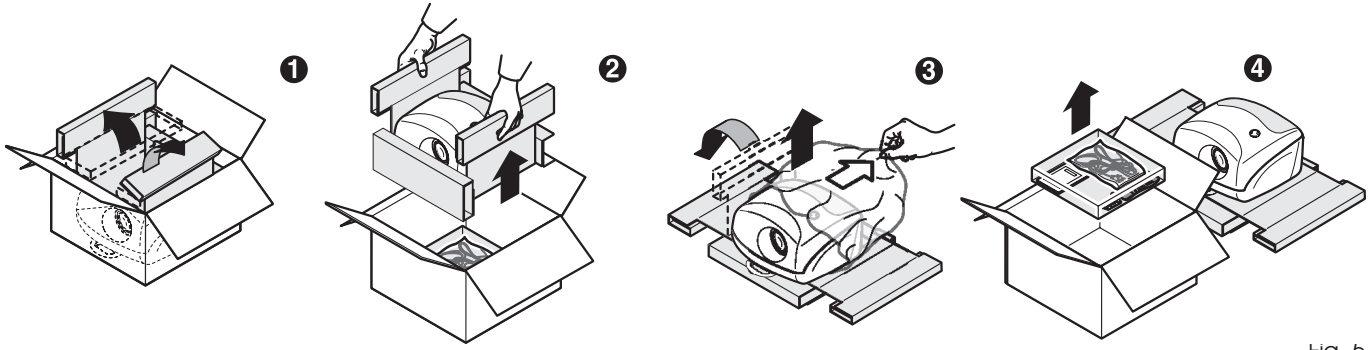

Fig. 5

- the projector
- the remote control
- four 1.5V AAA batteries (for remote control)
- three power cables (EU, UK, USA)
- the user manual.

To unpack the projector safely and easily please follow steps 1 to 4, as drawing (Fig. 5).

It is recommended that the carton and packaging is retained for future use and in the unlikely event that your projector needs to be returned for repair.

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4 INSTALLATION

Position the projector on a stable, suitable platform or utilise the optional bracket for a fixed ceiling or wall installation.

CAUTION: In the case of ceiling or wall mounting using a suspension bracket, follow the instructions carefully and comply with the safety standards you will find in the box together with the bracket. If you use a bracket different to the one supplied by SIM2 Multimedia, you must make sure that the projector is at least 65 mm (2-9/16 inch) from the ceiling and that the bracket is not obstructing the air vents on the lid and on the bottom of the projector.

Adjust the feet underneath to obtain a level position, lining up the base of the projected image to the base of the projection screen (Fig. 6).

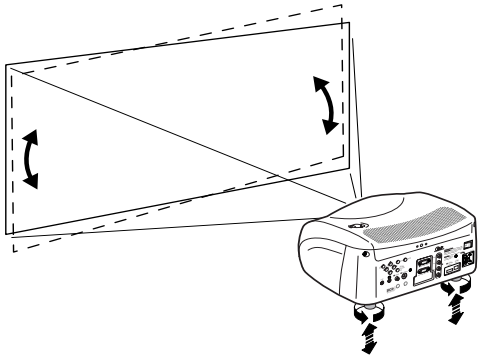

Fig. 6

Position the projector the desired distance from the screen: the size of the projected image is determined by the distance from the lens of the projector to the screen and the zoom setting. See "Appendix C": Projection distances" for more information.

Use the motorised lens zoom to adjust the image size and the
motorised lens focus to achieve maximum clarity. With optimum focus you should be able to clearly see each single pixel when within close proximity to the screen (Fig. 7).

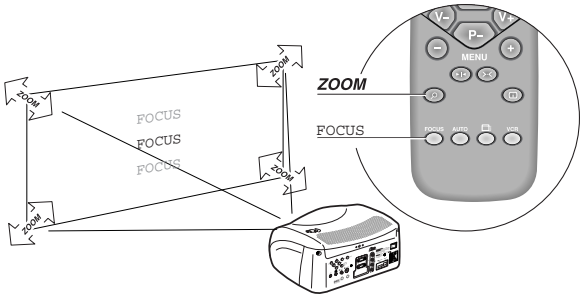

Fig. 7

The manual lens shift adjustment allows the projected image to be moved vertically, up or down, in relation to the centre of the screen; the maximum adjustment being equal to half the height of the image in either direction (Fig. 8).

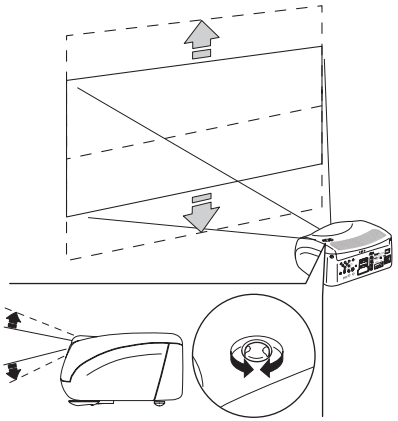

Fig. 8

In the event you are unable to centre the image within the screen area, tilt the projector until the image is correctly positioned. Any keystone error can be removed by the Keystone adjustment in the Set up menu (Fig. 9).
The kyestone adjustment is not available for model DOMINO 20 H with 1080i input signal.

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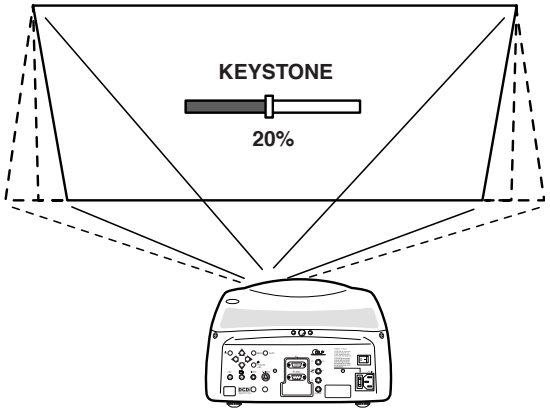

Fig. 9

The Orientation adjustment in the Set up menu will allow the projector to be used for desktop front, ceiling front, desktop rear and ceiling rear installations (Fig. 10).

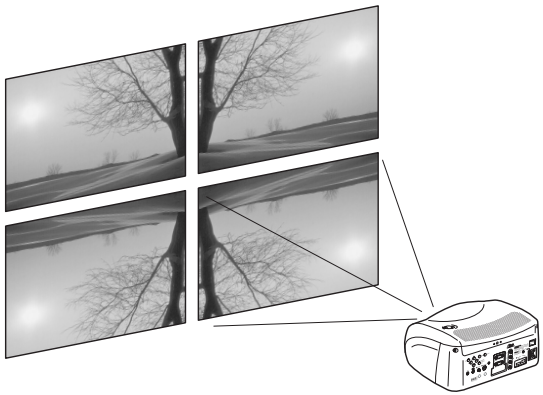

Fig. 10

To activate an electric motorised screen a 12 Volt output is provided at the rear of the projector. This can be connected to a screen interface unit, which can be supplied by screen manufacturers (Fig. 11).

The output is activated (Voltage: 12 Vdc) when the projector is switched on and is de-activated (no Voltage output) when the projector is in stand-by mode.

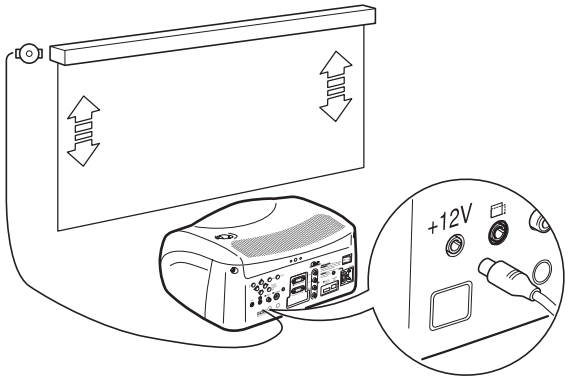

Fig. 11

Some manufacturers offer screen-masking systems to help frame the projected image and improve picture contrast. These systems can be connected to output ⬚, at the rear of the projector (Fig. 12).

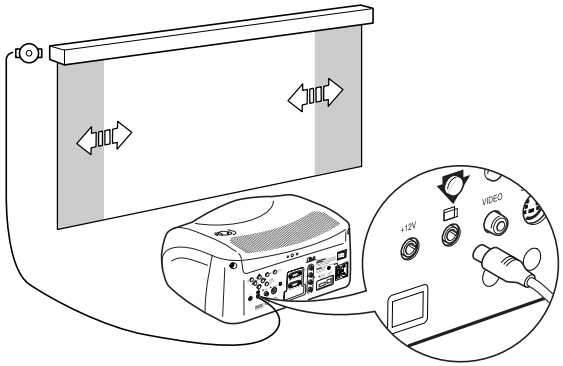

Fig. 12

For rear projection the screen must be translucent.
For front projection, we recommend the use of screens with low gain specifications (i.e. 1.3 to 2). The use of high gain screens should be avoided due to their limited viewing angle, which is undesirable for a large audience.
Preferably, use a screen with black, non-reflecting borders, which will perfectly frame the projected image.

Avoid light shining directly on the screen during projection as this will reduce contrast and black level detail on the projected image. For the true cinema experience best results are achie-

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ved with little or no ambient light.

Furniture and other objects with reflecting surfaces, as well as light coloured walls should be avoided, as they are likely to interfere with the screen's characteristics.

5 SWITCHING ON AND OFF THE PROJECTOR

CAUTION: Connect the projector to a power supply with a nominal voltage within the following values: 100-240 Vac, 50/60 Hz. It must be earthed (Fig. 13).

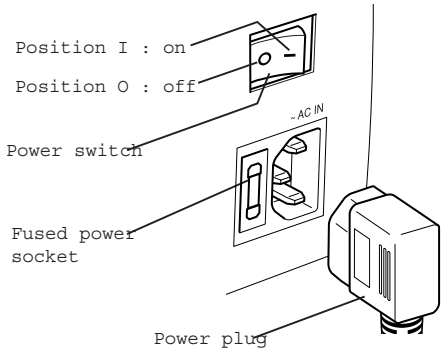

Fig. 13

Upon switch on (in position **I**) the projector will initialise (red and green LEDs on). Followed by stand-by mode (red LED on) (Fig. 14).

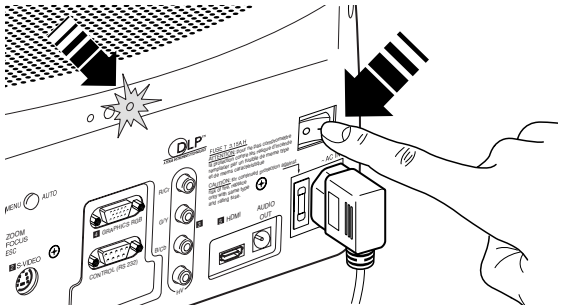

Fig. 14

SWITCH ON FROM STAND-BY

By remote control: press one of **1...9**
By keyboard: press **Up** or **Down Arrow .**

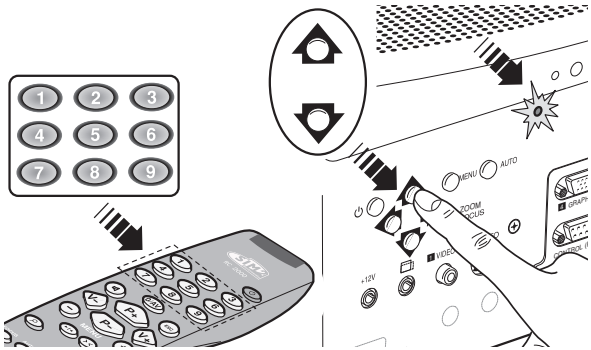

Fig. 15

When switching on from stand-by, the projector will turn on the lamp; after a brief warm up period the image will be displayed (green LED on).The input automatically selected will be the last one memorised prior to switch off (Fig. 15).
You may experience difficulties switching on the projector shortly after switching off: the lamp may fail to come on as it is too hot.
Just wait a few minutes to cool it down.

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SWITCHING OFF AND RETURNING TO STAND-BY

By remote control: press ⏻
By keyboard: press key ⏻

When switching off, the projector goes in to stand-by memorising the input selection at the time of switch-off.
The fans will continue to work until the lamp has cooled down (red and green LEDs flashing) and will stop automatically after this period.

LED INDICATORS

The LED indicators, located in the top-rear of the projector, provide information about the state of the projector (see table below).

STATE	INDICATORS		NOTES
	GREEN	RED	
POWER OFF	OFF	OFF	The Power is turned off
INITIALIZATION	ON	ON	Power button has been pressed and the software is initialized (15 s)
STANDBY	OFF	ON	Projector is in standby mode
OPERATING	ON	OFF	Projector is on
COOLING LAMP	FLASHING	FLASHING	Projector is powering down; the fans are running to cool the lamp (1 min)
WARNING	FLASHING	OFF	Problems to display one or more source
ERROR	OFF	FLASHING	Internal circuit failure

6 CONNECTIONS

To obtain the best performance from your projector, we recommend the use of good quality "video cables" to the various signal sources (75 ohm Impedance).

Poor quality cables will cause inferior picture performance.

For optimum connectivity we recommend you follow these simple steps:

- With exception of coaxial RCA/Phono type connectors, always double-check that the plug is inserted the correct way round to avoid damaging the plugs or the sockets on the projector (Fig. 16).
- Remove cables by the plug and do not pull on the cable itself.
- Avoid tangled cables.
- Position the cables carefully to avoid a trip hazard - especially in low light areas.

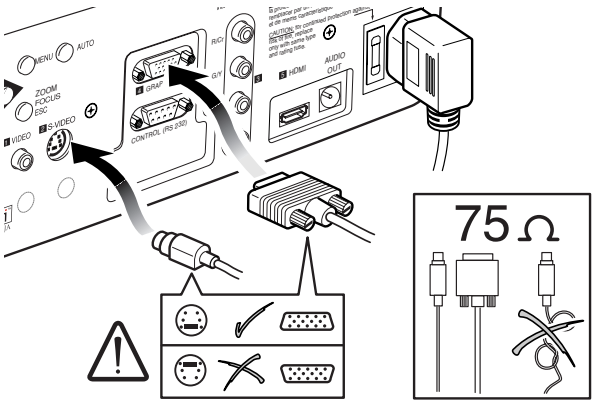

Fig. 16

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COMPOSITE VIDEO INPUT

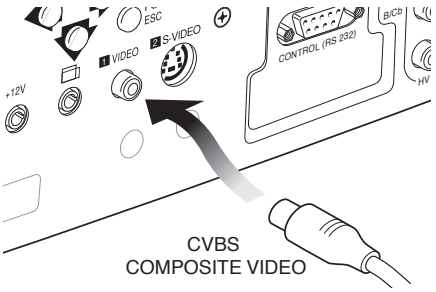

Fig. 17

This input is suitable for a "Composite Video CVBS" via a cable with an RCA/Phono connector (Fig. 17).

S-VIDEO INPUT

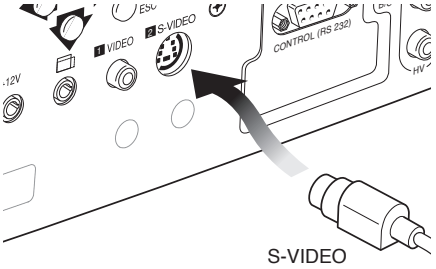

Fig. 18

This input is suitable for equipment fitted with a S-Video output to give improved picture performance (S-VIDEO/S-VHS) Connection is made via a 4-pin mini-DIN (Fig. 18).

VGA INPUT

Personal Computers, Video Processors (scalers) and Video Game consoles can be connected to the projector via the HDB 15-Pin (VGA) terminal.
Ensure the output of equipment connected is RGB with one of the following synchronisation options: separate H/V Sync, H+V (Fig. 19). This input accepts a Horizontal Scan Frequency of between 32-80 kHz and a Vertical frequency of between 48-100 Hz. Computer Resolutions of VGA, SVGA, XGA, SXGA and UXGA can be displayed.

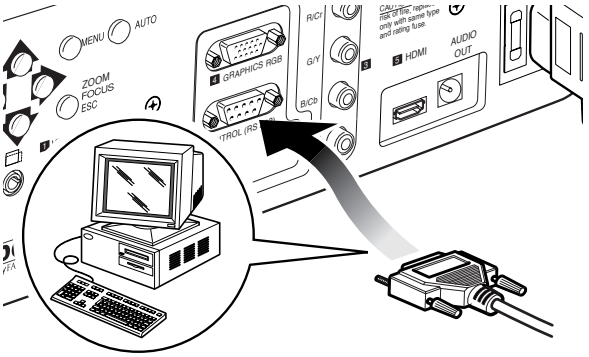

Fig. 19

RGB/YCRCB INPUT

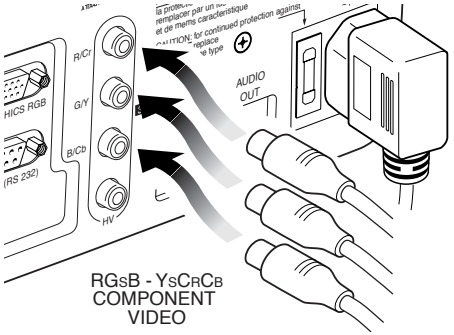

Fig. 20

This input is suitable for a RGB video signal, or for a Component (YCrCb) type, with composite synchronisation on the green signal (RGsB) or on the luminance (Y) signal (YsCrCb) through a cable with RCA/Phono type connector (Fig. 20).

RGB or YCrCb signals can also have H+V Composite Sync. In this case connect the R, G, B (or Y, Cr, Cb) outputs of the source to the respective R/Cr, G/Y, B/Cb inputs of the projector (paying attention not to invert the positions) and the synchronisation signal to the HV input . When connecting the three sets of RCA connectors use the colours as a guide: connector R is red, G is green, B is blue and HV is white. By using a suitable SCART to RCA connector adapter cable, an RGB video signal from a source equipped with an SCART connector can be

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connected to this input.
Component signals are connected to inputs Y, Cr and Cb, taking care to observe the correspondence with the outputs on the source. The video signals that can be connected to this input can have horizontal scanning frequencies of 15 kHz (standard video resolution), 32 kHz, or higher (progressive scanning video, high definition video).
Some sources provide the facility to choose between a progressive signal or an interlaced signal.

HDMI™

With this input it is possible to integrate the optimal quality of a digital image with a multichannel audio signal.
The HDMI™ (High Definition Multimedia Interface) in fact integrates a multichannel audio signal with the uncompressed high definition video signal.
The interface also allows the exchange between the video source and the HT system of control data to optimise the quality of the projected image.
The HDMI™ input allows connection to video sources that use the HDCP (High-Bandwidth Digital Content Protection) protocol to protect their contents. This protocol is in fact incorporated in the definition of the HDMI™ technology.

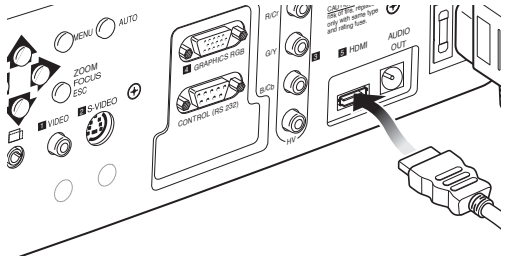

Fig. 21a

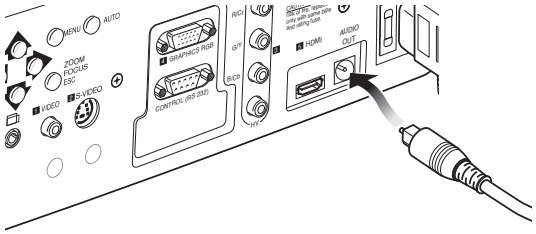

Fig. 21b

Once the video source has been connected to the HDMI™ input, internal processing by the projector separates the video information from the audio information. This information is then made available via an optical digital output with a female TOSLINK connector in accordance with the S/PDIF standard.

MOTORISED PROJECTION SCREEN OUTPUT

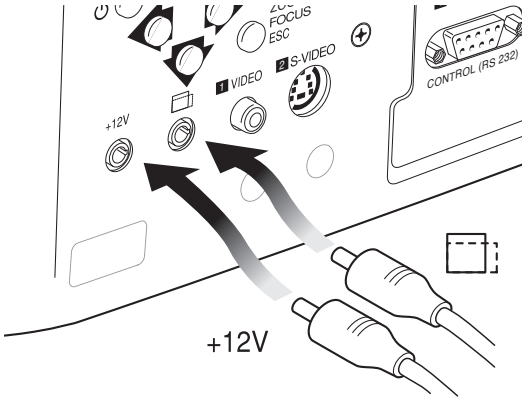

Fig. 22

The projector is equipped with two outputs (Voltage: 12 Vdc) for motorised projection screen and screen masking systems. These 12V outputs should be connected to the appropriate screen interface provided by the screen manufacturer (Fig. 22).

The +12V output is activated when the projector is switched on (green LED on) and is de-activated when the projector is in stand-by mode (red LED on).

The output can be used to control a screen masking system; its output can be set with the "Screen control" adjustment in the "Aspect" menu. This output allows reduction in the area of a 16:9 screen, into a 4:3 format, by activating a screen masking system (refer to screen manufacturer for further information).

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RS232 INTERFACE CONNECTOR

It is possible to control the projector through a personal computer. First, load the appropriate projector control software onto your PC, then simply connect this input to a cable from your PC's RS232 serial port (Fig. 23).

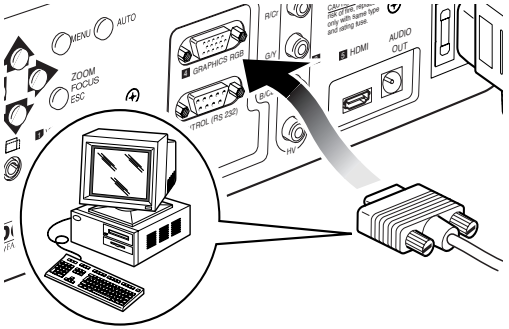
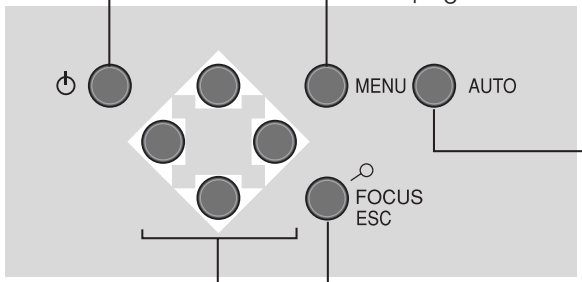


Fig. 23

7 KEYBOARD PAD

Eight push buttons, at the rear of the projector, will allow complete operation without the use of the remote control.



Menu

Activates the On Screen Display menus. Navigates Menu pages.

Switches off to stand-by.

Auto

Selects Auto Adjust (automatic optimisation of the displayed image).

Up/Down/Left/Right arrow keys

Navigate through and make adjustments to the On Screen menus.
Arrow Up/Down switch on from stand-by and recall Source Selection menu.

Focus-Esc

De-activates the On Screen Display and gives access to the lens Zoom/Focus adjustment functions.

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8 REMOTE CONTROL

Insert the batteries, taking care to match the polarity, as indicated in the battery recess of the remote (Fig. 24).

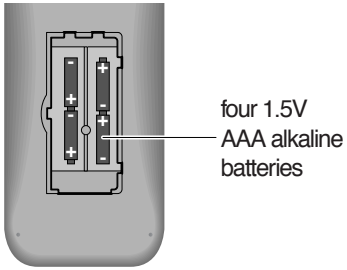

Fig. 24

Change the batteries in the remote control if experiencing difficulty in sending commands to the projector.
If the remote control is not to be used for a long period of time remove the batteries. Replace all batteries at the same time; do not replace one new battery with a used battery. If the batteries have leaked, carefully wipe the case clean and replace with new batteries.
The remote control sends commands to the projector via infrared signals.
It is possible to control the projector by pointing the remote control at the screen; the sensor at the front of the projector will pick up the reflected infrared commands. (Fig. 25).

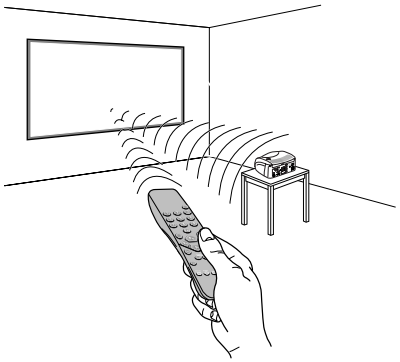

Fig. 25

Avoid placing obstructions between the remote control and the infrared sensor at the front of the projector; this will impair the remote control performance.

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9 ON SCREEN MENU

INPUTS

The input selection menu (Inputs) is called by pressing 0 on the remote control and, when no other menu is displayed, using the ↑ and ↓ keys on the keypad. To select an input, scroll the list with the ↑ and ↓ keys until the desired input is highlighted, then press →.
Display of the input selection menu is terminated by pressing the ESC key, or when the time allowed for displaying the on-screen menu has lapsed (set in the Set-up Menu).
Input 3 can receive RGB and YCrCb signals, at 15 kHz, 32 kHz or higher. The association between the input and the type of signal is made from the pull-down menu that appears on the right of the < symbol after pressing the ← key (Fig. 26b).

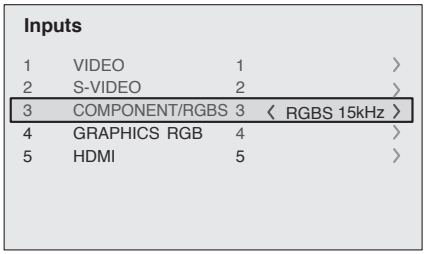

Fig. 26a

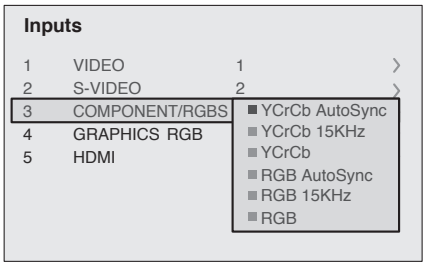

Fig. 26b

After selecting the source signal (by means of the ↑ and ↓ keys), press MENU+/MENU - to confirm and close the pull-down menu; the value you have just set will be displayed on the right of the < symbol.
As with the other inputs, you can now select the input just set by pressing the → key.
During the short time it takes to find the signal, a box appears showing the signal requested. As soon as the signal is shown in the box additional information is displayed concerning the video standard (for video signals) or resolution (for graphic signals), and format.
Fom the SETUP menu it is possible to choose to visualize or not this information, for more details check the "SOURCE INFORMATION" in "MENU" section.

MAIN MENU

To access the main menu of the On Screen Display press the MENU key on the keypad or the MENU+ or MENU- key on the remote control.
The main menu is divided into four windows, PICTURE, IMAGE, SETUP and MENU, in which the various adjustments are grouped according to the frequency of use. Use ↑ and ↓ to select the line corresponding to the adjustment you wish to make (Fig. 27).

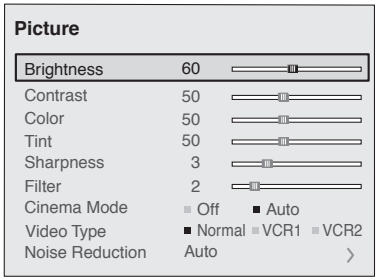

Fig. 27

The various menus only offer the relevant adjustments in accordance with the type of input signal displayed (e.g. certain typical adjustments for video signals, not necessary for graphic signals, do not appear on the menus, and vice versa).

Some adjustments (e.g. BRIGHTNESS and CONTRAST) are associated with a numerical value that can be varied within the set limits using the keys ← / →. For others (e.g. VIDEO TYPE) you can choose among three options presented on the same ← / →).

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Other adjustments (marked by the < symbol) provide submenus, which appear as a superimposed window in which the selection is made with the ↑ / ↓keys (Fig. 28). .

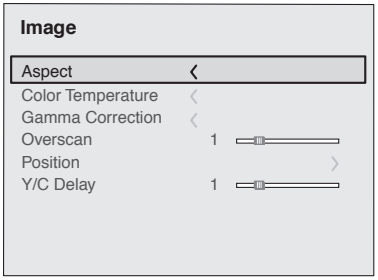

Fig. 28a

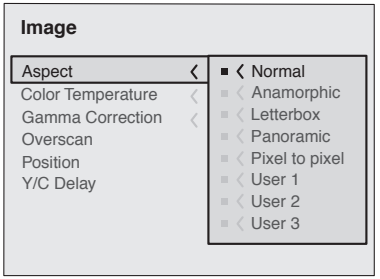

Fig. 28b

These submenus are accessed by pressing the ← key, while exit and return to the upper level occurs by pressing MENU+/-. Press ESC on the remote control or keypad to interrupt the menu display or wait for it to disappear automatically after the number of seconds set on the SETUP page.

PICTURE

This menu features the adjustments related to picture quality. Adjustments that are not available for a given input do not appear on the menu. Table 1 summarises the adjustments available for each input.

BRIGHTNESS

Use this control to adjust the image's black level without affecting white areas. Increasing the value will give more detail in darker parts of the picture. For correct adjustment it may prove useful to display the signal relative to the grey scale within which the black level and the level immediately above it must be separately identifiable. Alternatively use a scene composed of black objects alongside other dark coloured objects.

CONTRAST

Use this control to adjust the image's black level without affecting white areas.
To ensure correct adjustment, it may prove useful to display the signal relative to the grey scale, within which the white level and the level immediately below it must be separately identifiable. Alternatively use a scene composed of well-lit white objects surrounded by light coloured objects with lower level lighting.

COLOR

This control (also called Saturation) increases or decreases the picture colour intensity. When set to zero, colour images will be shown in black and white. Increasing the value, try to find the point at which the colours look natural: suitable references include skin tones and grass in landscape shots.

TINT

Controls the purity of the colours. Basically determines the red-green ratio of the picture.
Reducing the value will boost the red contents of the picture, increasing the value will boost the green tones. For this adjustment use skin tones or a test pattern image with colour bars as a reference.

SHARPNESS

Use this adjustment to increase and decrease the level of picture detail.
When the sharpness value is reduced the image details appear less pronounced, while increasing the value raises image definition, making the outline of objects sharper.
Note that an excessively high value may result in a 'noisy' picture and the edges of objects may be unnaturally defined.

SHARPNESS MODE

This allows you to select the type of processing associated with sharpness adjustment. In the case of a progressive or interlaced video signal VIDEO mode is advisable; with PC graphic signals use GRAPHIC MODE.

FILTER

This allows you to select the mode in which the input signal is processed. Selecting the most appropriate value for a given input signal ensures the best horizontal and vertical definition and makes the picture sharper.

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CINEMA MODE
In AUTO the deinterlacer recognises if the video signal source is a movie film (obtained from a Telecine device with 3:2 or 2:2 pull-down) and applies a deinterlace algorithm optimised for this type of signal.
If the video signal source is not identified as a film, or if you select NO the deinterlacer applies a Motion compensated algorithm optimised for video camera signals.

VIDEO TYPE
Activates a filter to improve stability of pictures from video recorders or DVD Players. To toggle between NORMAL, VCR1 mode and VCR2 mode press on the remote control.

NOISE REDUCTION
This adjustments allows to choose the filter value for noise reduction purposes.

As soon as this option is selected on the menu, the image is divided in two parts.
In the left side the image is not altered by the filter, in the right part the filter is activated.
This allows you to compare the effect of the filter.
It is possible to deactivated the filter (NOT ACTIVE), to use the automatic adjustments (AUTO) or to manually select (MANUAL) the value suitable for the image with the VALUE adjustment.
In case of using the VALUE adjustement, it is enoght to select to cursor below and set the value with the ← / → keys of the remote control.

Tab. 1INPUT SIGNALS AND ADJUSTABLE/SETTING ITEMS

ADJUSTEMENTS	INPUTS					
	Video S-Video	RGBS 15kHz YCrCb 15kHz	RGBS	YCrCb	RGB Grafico	HDMI™
BRIGHTNESS	●	●	●	●	●	●
CONTRAST	●	●	●	●	●	●
COLOR	●	●	-	●	-	-
TINT	● (NTSC)	●	-	●	-	-
SHARPNESS	●	●	●	●	●	●
SHARPNESS MODE	-	-	●	●	●	●
FILTER	●	●	-	-	-	-
CINEMA MODE	●	●	-	-	-	-
VIDEO TYPE	●	●	-	-	-	-
NOISE REDUCTION	●	●	-	-	-	-

● Adjustable/can be set - Not adjustable/can not be set

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IMAGE

This menu features adjustments relating to picture position, aspect ratio, etc.

ASPECT

This adjustment allows you to change the dimensions and aspect ratio (relationship between width and height) of the displayed image. There are five preset aspects available and three personalised aspects (with user-settable parameters). You can select a different aspect for each source: the selected aspect ratio will be automatically called the next time the relative source is called.
You can also select the required aspect ratio by repeatedly pressing the ◀■▶ key, or by pressing ◀■▶ and a numerical key (1...8).
The following aspects are available.

NORMAL: projects the image occupying the full height of the screen while maintaining the aspect ratio of the input signal. When the input signal aspect ratio is 4:3 black vertical bands are displayed on the right and left of the picture.

ANAMORPHIC: allows a 16:9 picture to be displayed correctly.

LETTERBOX: serves to display 4:3 letterbox image (with source signal having black bands above and below the picture) so that it fills the 16:9 screen and maintains the correct aspect ratio.

PANORAMIC: this aspect stretches the 4:3 image, slightly cropping the upper and lower parts.
Panoramic is ideal for displaying a 4:3 image on the 16:9 screen of the Display.

PIXEL TO PIXEL: this aspect displays the image as it is input without adapting it to the screen.
The image is projected in the centre of the screen and if its horizontal and/or vertical dimensions are smaller than the display, it is bounded by vertical and/or horizontal black bands.

USER 1, 2, 3: When none of the preset formulas are suitable, the User formulas are available, with the facility for continuous horizontal and vertical adjustment of picture size.
SCREEN CONTROL
For each aspect chosen, the SCREEN CONTROL command allows you to reframe the screen to a variety of aspect ratios and screen size, using an appropriate screen-masking interface connected to the 12 V output socket (please refer to the screen manufacture's manual)

COLOR TEMPERATURE

Changes the colour balance of the image.
Colours can be adjusted towards the red end of the spectrum (low colour temperature values - expressed in degrees Kelvin) or the blue end (high values).
Colour temperature can be selected with three preset values: HIGH (corresponding to approx. 9000 degrees Kelvin), MEDIUM (approx. 8000 degrees Kelvin), LOW (approx. 6500 degrees Kelvin) and one PERSONAL setting controlled by the user with separate adjustments for RED, GREEN and BLUE.
In the personale color adjustment for all three colors it is possible to set an Offset value and Gain.
The Offset adjustments have an impact of the low IRE values, while the Gain adjustments impact of the higher IRE values.
Generally, the HIGH value is more suitable for displaying graphic images, MEDIUM and LOW for video images.
These adjustments are reserved for expert users since there is a risk of obtaining results that impair projected image quality.

GAMMA CORRECTION

Determines the system's response to the grey scale, emphasising or attenuating the different grades of brightness (blacks, dark, medium, light grey, whites) in the projected image.
The GRAPHICS setting is more suitable for computer images, while the FILM and VIDEO settings are more suitable for video images.

OVERSCAN

Remove noise around image. Some sources can produce a picture with noise along edges, thanks to the overscan function it is possible to drop such imperfections outside the projected area. The overscan value can be included between 0 (no overscan) and 32 (maximum value). The image maintains in any case the aspect.

POSITION

Use this adjustment to position the image vertically and horizontally. Determines the aspect ratio of the projected image.
These parameters do not normally require adjustment because the system checks the input signal and automatically sets the

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most suitable values.
However, if the image is not perfectly centralised it may prove useful to request the system to repeat the input signal analysis and image positioning, calling the automatic control procedure from the AUTO button on the remote control or keypad. When this procedure is called it is helpful to have a white or light coloured background on the screen in the current picture.

FREQUENCY/PHASE
These adjustments, available for progressive signals and for signals from PC, ensure correspondence between the number of pixels making up the signal and the number of pixels making up the projected image.
These parameters do not normally require adjustment because the system checks the input signal and automatically sets the most suitable values.
However, if the image appears disturbed (loss of position within the equidistant vertical bands or instability and lack of sharpness on the narrow vertical lines) it may help to prompt the system to repeat the input signal analysis and determination of the best parameters by calling the automatic adjustment procedure with the AUTO key on the remote control or on the keypad.
If the automatic procedure fails to have the required effect, enter the frequency and phase values manually and approach the screen sufficiently to observe the effects of the adjustments.

Y / C DELAY
In the case of Video and S-Video signals, it may be necessary to correct horizontal colour misalignment within the projected image. For a given video standard (e.g. PAL or NTSC) the stored value does not normally require further fine-tuning, unless the source or connection cable has changed.

MAGNIFICATION
Use this adjustment to magnify the projected image (please note the higher the magnification the poorer the quality of the image).
Adjust the level of enlargement using the ←, → keys (the magnifying lens icon 🔍 will appear at the centre of the image).
Via remote control, it is possible to alternate between modes, by pressing the key.

TABLE 2 INPUT SIGNALS AND ADJUSTABLE/SETTING ITEMS

ADJUSTEMENTS	INPUTS					
	Video S-Video	RGBS 15kHz YCrCb 15kHz	RGBS	YCrCb	RGB Grafico	HDMI™
BRIGHTNESS	●	●	●	●	●	●
CONTRAST	●	●	●	●	●	●
COLOR	●	●	-	●	-	-
TINT	● (NTSC)	●	-	●	-	-
SHARPNESS	●	●	●	●	●	●
SHARPNESS MODE	-	-	●	●	●	●
FILTER	●	●	-	-	-	-
CINEMA MODE	●	●	-	-	-	-
VIDEO TYPE	●	●	-	-	-	-
NOISE REDUCTION	●	●	-	-	-	-

● Adjustable/can be set - Not adjustable/can not be set

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SETUP

The setup menu contains less frequently used adjustments that may be required during installation (e.g. On Screen Display language selection or the display of Test Patterns).

ORIENTATION

Select the option that best describes the installation i.e. desktop front, ceiling front, desktop rear and ceiling rear.

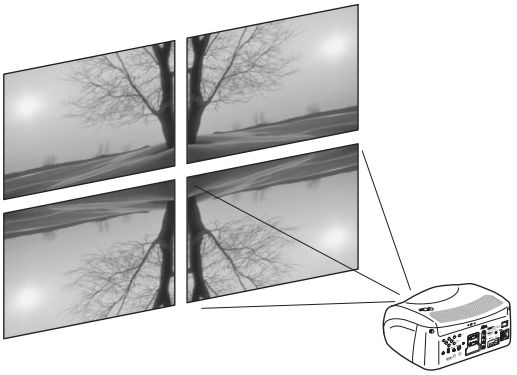

Fig. 29

HORIZONTAL/VERTICAL KEYSTONE

To obtain maximum quality of the projected image, we recommend the installation of the projector on a level platform parallel and central to the screen.
Adjust the feet underneath to obtain a level position, lining up the base of the projected image to the base of the projection screen (Fig. 30).

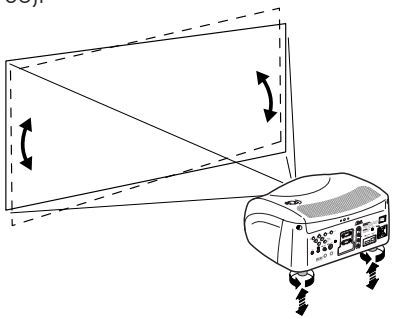

Fig. 30

If the projected images needs to be centred horizontally, the manual lens shift adjustment allows the projected image to be moved vertically, up or down, in relation to the centre of the screen; the maximum adjustment being equal to half the height of the image in either direction (Fig. 31).

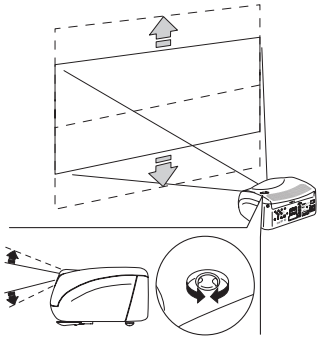

Fig. 31

In the event you are unable to centre the image within the screen area, tilt the projector until the image is correctly positioned. Any keystone error can be removed by the Keystone adjustment in the Set up menu.
The keystone adjustement helps to compensate possible horizontal tilts of the projector.
The kyestone adjustment is not available for model DOMINO 20 H with 1080i input signal.

PROJECTION LENS

The **Zoom** adjustment impacts on the motorized zoom lens allowing to increase or decrease the dimension of the projected image. The **Focus** adjustment impacts on the motorized lens focus, allowing to obtain the highest definition on the projected image, an accurate focus setting should allow the viewer to distinguish each pixel that create the image one from another.

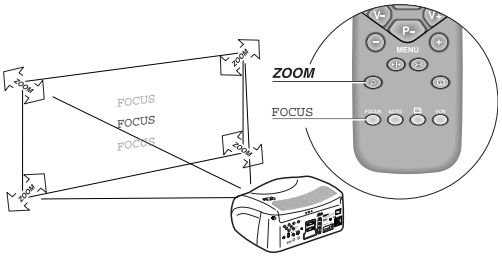

Fig. 32

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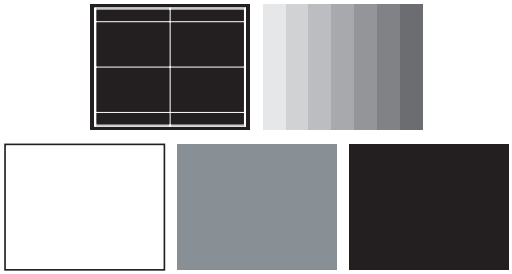
TEST PATTERNS

Displays a series of five test patterns, useful for the installation of the projector.
Press ↓ and ↑ keys to browse pattern.



INITIAL SETTINGS

Reconfigures the projector to original factory settings except Position, Orientation, Y/C Delay, Zoom and Focus.

MENU

LANGUAGE

Lists the languages available for the On Screen Display menus.

SOURCE LIST

In order for the D35 projector to be more flexible, the following described functions allow to modify the input selection menu making it more user friendly.
The main window shows all the inputs available on the D35.
If one or more inputs are not utilized, it is often helpful to blank them from the input list (accessed with the 0 key).
Once the input has been chosen, in the drop menu that appears by pressing the ← key, it is possible to activate the source (Fig. 33).
The exclusion or activation of the source will automatically renumber the remaining active inputs.

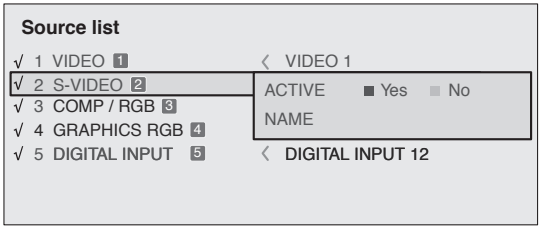


Fig. 33

The inputs with an active video signal (visible in the input selection menu) are marked with a check symbol.
It can be also helpful to identify the input with a name chosen by the user (for example with the name of the connected source) rather than with the signal type. Once chosen to have the input visible, in the drop menu, by selecting the Name option it is possible to rename the source in use.
This will make it easier to remember the source connected to a specific input. You can use up to 12 alphanumeric letters to name the source (for more details check the "Insert text" section)

Insert text

You will be able to insert text easily and rapidly by accessing the text insertion menu (fig. 34)

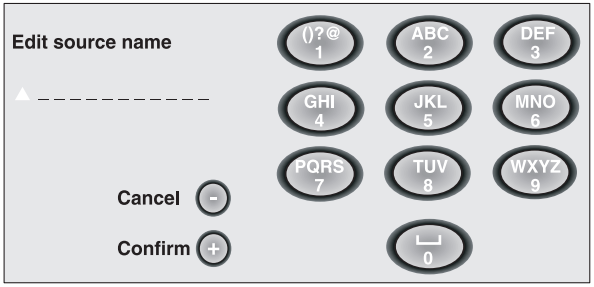


Fig.34

The text insertion mode remains the same if text is being inserted for the first time or if a previously inserted name is being edited. The letter insertion can be done in any available position (represented by horizontal lines).
Use the → and ← keys to move between letters either left or right respectively.

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Press the numeric key matching the letter (Fig. 34), the first click of the key selects the first letter, the second click the second letter and so on.
The available letters are shown in the text insertion menu.
Once one letter has been inserted, to insert the following one it is necessary to move with the cursor in the next right position with the → key of the remote control, repeat this procedure to insert other letters.
Use the ↑ key to switch from small case to capital letters and viceversa.
Any mistake can be deleted with the ↓ key once it has been positioned on the wrong letter.
Once the text insertion process is finished, it can be confirmed and saved by clicking the MENU+ key.
If you want to delete the modifications use the MENU- key of the remote control.

SOURCE INFO
When active (YES) each source change will show the information related to the signal. If not active (NO) there will be no information on the selected source.

OSD BACKGROUND
Determines the type of background for the On Screen Display.

OSD TIMEOUT
Use this adjustment to set the display time after which the On Screen Display will disappear.

OSD POSITION
Allows the On Screen Display to be positioned in a particular area of the projected image. The OSD can be positioned using the arrow keys for fine adjustments or keys 1...9 on the remote control to select one of 9 preset positions.

INFO

Displays the current status of the projector and information concerning the projected video/graphic signal.
This function is displayed on pressing i on the remote control (or, in the absence of the On Screen Display, the → key on the remote control).

QUICK MENUS

The Quick menus allows the adjustment of most of the picture quality controls without recalling the main On Screen menus. Brightness, Contrast, Color, Tint, Sharpness and Filter adjustments appear at the bottom of the screen, one after another, when **Up** and **Down Arrow** keys are pressed.

MESSAGES

The following messages could appear on your screen:

No Signal

The projector does not recognise any signal sent through the selected input.
- Check that the selected input is actually connected to a video or graphic signal.
- Verify compatibility of video/graphic signals with technical specifications of your projector.
- Check the integrity of cables used to connect various sources.

Out of range

Either the resolution or the horizontal/vertical frequency of the input signal is too high.

- Input a signal that is within specifications.

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10 CLEANING AND MAINTENANCE

The projector does not require internal cleaning. There are no user serviceable parts inside the projector. Please refer all service requirements to qualified personnel.

Cleaning the projector's cover:
Use a soft slightly damp cloth. Do not use abrasive cleaners, solvents or other harsh chemicals, as this will damage the finish of the cover. Avoid direct cleaning of the rear panel's screen-printing.

Cleaning the lens:
The lens may be cleaned with a very soft, non-abrasive small brush, in order to remove dust particles. Alternatively, use a soft dry cleaning cloth (of the type used for camera lens cleaning) to remove fingerprints and grease marks.

11 TROUBLESHOOTING GUIDE

No power (Green and red LED are OFF)

- Check the power switch at the rear: it must be in position **I**.
- Check if the power cable has been connected correctly to a working socket.
- Check the power socket fuse, at the rear of the projector.
- Replace the fuse on the mains socket with an identical type (T 3.15A H) (Fig. 2).
- Should the problem persist, seek authorised technical assistance.

The lamp is not coming on

- Allow a few minutes pause between switching off and turning on again (from stand-by). This will allow the lamp to cool down sufficiently.
- If the lamp doesn't come on – even though the projector has had sufficient time to cool down – seek technical assistance from your nearest Dealer.

No image

- Check that the selected input is actually connected to a active video or graphic signal.
- Check that the above source actually works.
- Verify compatibility of video/graphic signals with the technical specifications of the projector.
- Check the integrity of cables used to connect various sources.
- Check temperature of the room: it must be below 35°C (95°F)
- Check projector air vents on top and underneath the projector: they must be free of obstruction.
- If the problem persists, consult your Dealer.

Image is disturbed, unstable or noisy

- Verify compatibility of video/graphic signals with the technical specifications of the projector.
- Check the integrity of cables connecting projector to various sources.
- If the signal source is a terrestrial broadcast (via a VCR) check that the receiving channel has been correctly tuned in and that the aerial system is in good working order.
- Should the problem be present with a signal coming from a video-recorder, ensure that the videotape is an Original "first generation" copy and in good condition.
- Adjust the VCR's tracking control for optimum picture performance. Ensure the VCR mode is active in the Picture menu.

Incomplete image along borders (vertical and horizontal)

- Compare compatibility of video/graphic signals and technical specifications of your projector.
- Press **Auto** (on your remote or keypad) to execute automatic adjustments.
- Adjust the horizontal and vertical position of projected image by selecting **Position** on the **Image Adjustments** menu.

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- Adjust the width and height of image, selecting **Aspect** in the **Image Adjustments** menu.

Image too dark, too pale or unnaturally coloured

- Verify compatibility of video/graphic signals with technical specifications of your projector.
- Go to **Picture** menu, select and regulate any of the following, accordingly: **Contrast**, **Brightness**, **Color**, and **Tint**.
- If necessary, reset the **Color Temperature** and **Gamma Correction** (found on the **Image Adjustments** / **Advanced Settings** menu).

Graphic image with poor quality vertical detail

- Verify compatibility of video/graphic signals with technical specifications of your projector.
- Press **Auto** (on your remote or keypad) to execute automatic adjustments.
- Adjust **Frequency** and **Phase** parameters, found in the **Image Adjustments** menu, to optimise vertical detail of the projected image.

Video Image showing colour misalignment on vertical details

- Verify compatibility of video/graphic signals with technical specifications of your projector.
- Adjust **Y/C Delay** settings in the **Image Adjustments** / **Advanced Settings** to reduce colour misalignment. For best results use an external colour bar test pattern source.

Remote control does not work

- Check the batteries and for correct polarity.
- Ensure that the area between the infrared sensor (front of projector) and the remote control is free of obstruction.
- Ensure that infrared sensors (front and rear of projector) are not exposed to intense light levels.

12 OPTIONAL ACCESSORIES

You can purchase the following optional accessories at your Dealer:

- Wall/Ceiling Bracket Kit.

Use only original, or **SIM2 Multimedia** approved, accessories.

CAUTION: for ceiling/wall installation, by means of suspension bracket, carefully follow the instructions and safety instructions recommended by the Manufacturer in the bracket's literature.

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A TECHNICAL SPECIFICATIONS

OPTICAL DOMINO D35

Projection system:	optical engine based on 1 DMD™ HD2 chip, sealed housing, dusty proof
DMD™ panel:	resolution 1280x720 pixel
Brightness uniformity:	10% above or below the average
Contrast ratio:	> 3200:1 (full On / full Off)
Projection lens:	zoom, 12 elements AR multilayer coating, motorized focus and zoom, manual elevation
Aperture f#:	2.7 (zoom max) - 3.3 (zoom min)
Picture size:	50-250 inches (diagonal measure)
Aspect ratio:	4/3 and 16/9
Throw ratio: (throw distance: picture width)	1.8:1 - 2.4:1
Focus range:	2.2 - 13.0 m (7' 3" - 42' 8")
Throw Distance:	60": 2.4m - 3.3m (7' 11" - 10' 10") 80": 3.2m - 4.4m (10' 6" - 14' 5") 100": 4.0m - 5.5m (13' 2" - 18' 1")
Keystone adjustement:	up to 26° (optical: ± 8° digital: ±18°)
Lamp:	150 W
Lamp life time:	6000 hours (average value measured in the laboratory under optimal conditions; it can be sensibly reduced by the unit misusing)

ELECTRICAL

Input Signals:	CVBS on RCA/Phono type connector S-VHS on Mini-DIN connector RGBHV on DB15HD connector RGBS / YCrCb on RCA/Phono type connector HDMI™
Horizontal frequency:	from 15 to 80 kHz (up to to UXGA format @ 60 Hz)
Vertical frequency:	48-100 Hz
Video standards :	automatically selected (PAL B,G,H, I, M,N,60, SECAM, NTSC 3.58, 4.43)
High definition video:	ATSC HDTV (480p, 720p, 1080i)
Graphic standards :	VGA, SVGA, XGA, SXGA, UXGA
Deinterlacer:	3:2 pull down sequence convertion
Colour temperature:	adjustable from 5000 to 9300 degrees K
Video processor:	DTI, CTI, comb filter, noise reduction. Sharpness, Y/C delay and NTSC tint adjustments
Remote control:	via infrared remote control and via computer through RS232 serial interface
Low Voltage Power Output:	two 12 Vdc output, 100 mA max on jack connectors
Output :	one Optical Audio on TOSLINK connector

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GENERAL

Supply:	from 100 to 240 Vac, -10% +6% tolerance
Frequency:	from 48 to 62 Hz
Consumption:	200 W max
Fuse:	T 3.15A H, 5 x 20 mm
Dimensions of projector:	352 mm x 174 mm x 318 mm (LxHxD) 13"-7/8 x 6"-7/8 x 12"-1/2 (LxHxD)
Weight of projector:	5.0 kg (11 lbs)
Packaging and gross weight:	400mm x 275 mm x 405 mm (LxHxD) 1' 4" x 11" x 1' 4" (LxHxD) double reinforced carton; expandable anti-shock packaging; gross weight, including accessories: 8 kg (17.7 lbs); recyclable packaging material

ENVIROMENTAL

Operation temperature:	0 to 35°C (32° to 95°F)
Transportation temp.:	-10 to 55°C (14° to 131°F)
Storage temperature:	-10 to 55°C (14° to 131°F)
Humidity:	10% to 90% relative humidity non-condensing
Safety:	EN 60950, UL 60950
Transportability:	desktop equipment
Electromagnetic compatibility:	EN 55022 Class B EN 55024 EN 61000-3-2 EN 61000-3-3
Transportation:	IEC 68-2-31, IEC 68-2-32

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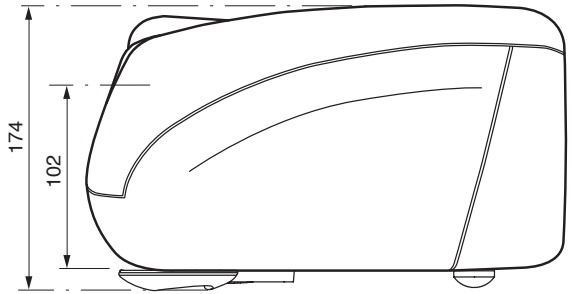
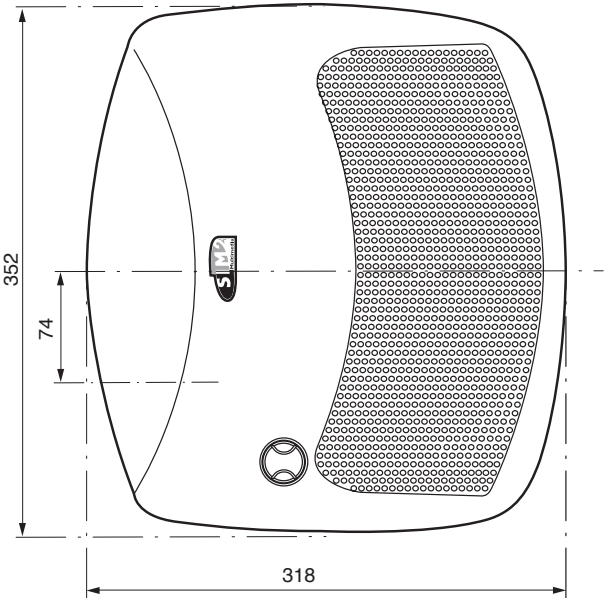
B DIMENSIONS

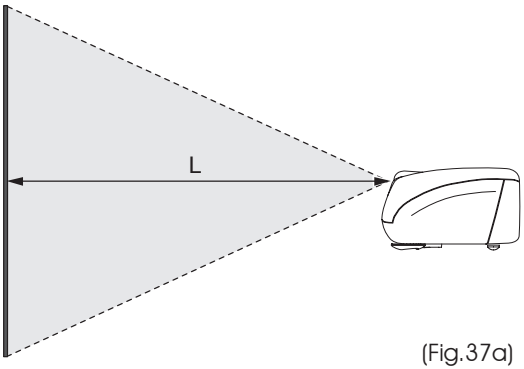




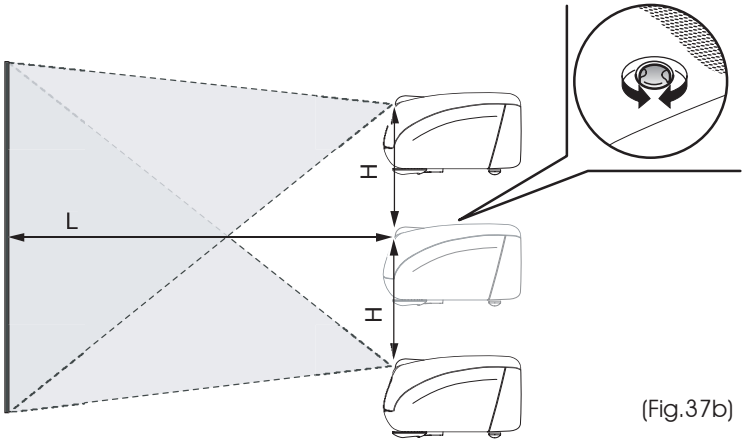
unit: mm

C PROJECTION DISTANCES

Follow the table below to determine the optimal projection distance "L" between the screen and the center of the lens. This will help you to obtain the desired screen size.The manual lens shift adjustments allows the projected image to be moved vertically, up or down, in relation to the centre of the screen (Fig.37b). If the distance "H" between the centre of the screen and the centre of the lens exceed Hmax, it is necessary to tilt the projector and use the digital keystone to correct the image projected.



(Fig.37a)



(Fig.37b)

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Projection distance table D35

Screen size (diagonal)	Screen width		16/9							
			Min projection distance				Max projection distance			
			min L		Hmax		max L		Hmax	
in.	m	in.	m	ft. in.	m	ft. in.	m	ft. in.	m	ft. in.
50″	1,1	44″	2,0	6′ 6″	0,3	0′ 11″	2,7	9′ 0″	0,3	1′ 0″
60″	1,3	52″	2,4	7′ 10″	0,3	1′ 1″	3,3	10′ 9″	0,3	1′ 1″
70″	1,6	61″	2,8	9′ 1″	0,4	1′ 3″	3,8	12′ 7″	0,4	1′ 4″
80″	1,8	70″	3,2	10′ 5″	0,4	1′ 6″	4,4	14′ 4″	0,5	1′ 8″
90″	2,0	78″	3,6	11′ 9″	0,5	1′ 8″	4,9	16′ 2″	0,5	1′ 9″
100″	2,2	87″	4,0	13′ 1″	0,6	1′ 10″	5,5	17′ 11″	0,6	2′ 0″
120′	2,7	105″	4,8	15′ 8″	0,7	2′ 3″	6,6	21′ 7″	0,7	2′ 4″
150″	3,3	131″	6,0	19′ 7″	0,8	2′ 9″	8,2	26′ 11″	0,9	2′ 11″
180″	4,0	157″	7,2	23′ 6″	1,0	3′ 4″	9,9	32′ 4″	1,0	3′ 3″
200″	4,4	174″	8,0	26′ 1″	1,1	3′ 8″	11,0	35′ 11″	1,2	3′ 11″
220″	4,9	192″	8,8	28′ 9″	1,2	4′ 1″	12,0	39′ 6″	1,3	4′ 3″
250″	5,5	218″	9,9	32′ 7″	1,4	4′ 7″	13,7	44′ 11″	1,4	4′ 7″

Projection distance table D35

Screen size (diagonal)	Screen width		4/3							
			Min projection distance				Max projection distance			
			min L		Hmax		max L		Hmax	
in.	m	in.	m	ft. in.	m	ft. in.	m	ft. in.	m	ft. in.
50″	1,0	40″	2,4	8′ 0″	0,3	1′ 1″	3,4	11′ 0″	0,4	1′ 4″
60″	1,2	48″	2,9	9′ 7″	0,4	1′ 4″	4,0	13′ 2″	0,4	1′ 4″
70″	1,4	56″	3,4	11′ 2″	0,5	1′ 7″	4,7	15′ 7″	0,5	1′ 8″
80″	1,6	64″	3,9	12′ 6″	0,5	1′ 10″	5,4	17′ 7″	0,6	2′ 0″
90″	1,8	72″	4,4	14′ 4″	0,6	2′ 0″	6,0	19′ 9″	0,6	2′ 1″
100″	2,0	80″	4,9	16′ 0″	0,7	2′ 3″	6,7	22′ 0″	0,7	2′ 4″
120′	2,4	96″	5,8	19′ 2″	0,8	2′ 8″	8,0	26′ 5″	0,8	2′ 7″
150″	3,1	120″	7,3	23′ 11″	1,0	3′ 4″	10,1	33′ 0″	1,1	3′ 7″
180″	3,7	144″	8,8	28′ 9″	1,2	4′ 1″	12,1	39′ 7″	1,3	4′ 3″
200″	4,1	160″	9,7	31′ 11″	1,4	4′ 6″	13,4	44′ 0″	1,4	4′ 7″
220″	4,5	166″	10,7	35′ 1″	1,5	4′ 11″		- -	-	-
250″	5,1	200″	12,2	39′ 11″	1,7	5′ 8″	-	-	-	-

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